

IN THE CLAIMS

Please amend claim 16 as follows:

Claims 1 through 15. (Canceled)

1 16. (Currently Amended) A call originating service method in a public/private
2 common mobile communication system, the method comprising :

3 providing the public/private common mobile communication system comprising a
4 plurality of mobile stations (MSs), a mobile switching center (MSC), a plurality of public
5 mobile communication network base station controllers (BSCs) connected to the MSC, a
6 plurality of public mobile communication network base station transceiver subsystems
7 (BTSS) connected to each of the plurality of BSCs, each of the plurality of these BTSS
8 adapted to form a corresponding public-only cell area, a public/private communication
9 service unit connected to one of the public mobile communication network's BSCs, and a
10 private BTS connected to the public/private communication service unit, the private BTS
11 adapted to form a public/private common cell area, one of said plurality of MSs being
12 within said public/private common cell area;

13 receiving at the public/private communication service unit a call origination
14 message from the MS in the public/private common cell area through the private BTS;

15 determining whether the MS in the public/private common cell area is registered
16 for a private mobile communication service by analyzing the received call origination

17 message;

18 transmitting transparently the call origination message to one of said plurality of
19 public mobile communication network BSCs when the MS in the public/private common
20 cell area is not registered for the private mobile communication service, and determining
21 whether identification information for the private mobile communication service is
22 included in the call origination message when the MS in the public/private common cell
23 area is registered for the private mobile communication service; and

24 transmitting transparently the call origination message to one of said plurality of
25 public mobile communication networks BSCs when the identification information is not
26 included in the call origination message, and providing private mobile communication
27 service for the MS in the public/private common cell area when the identification
28 information is included in the call origination message.

1 17. (Previously Added) A public/private common mobile communication system
2 adapted to provide a public/private mobile communication service in association with a
3 public land mobile network (PLMN), the system comprising:

4 a plurality of mobile stations (MSs), a mobile switching center (MSC), a plurality
5 of public mobile communication network base station controllers (BSCs) connected to
6 the MSC, and a plurality of public mobile communication network base station
7 transceiver subsystems (BTSs) connected to the BSC's, each of the plurality of public
8 mobile communication network BTSs being adapted to form corresponding public-only

9 cell areas;

10 a public/private communication service unit connected to one of said plurality of
11 public mobile communication network BSCs; and

12 a private BTS connected to the public/private communication service unit, the
13 private BTS adapted to form a public/private common cell area, the public/private
14 communication service unit receives a call origination message from a particular one of
15 the plurality of MSs located in the public/private common cell area through the private
16 BTS, the public/private communication service unit being configured to transparently
17 transmit the call origination message to one of the plurality of public mobile
18 communication network BSCs when the call origination message is a public mobile
19 communication service request message, the public/private communication service unit
20 being configured to provide network access for a corresponding private mobile
21 communication service when the call origination message is a private mobile
22 communication service request message.

1 18. (Previously Added) A call originating service method in a public/private
2 common mobile communication system, the method comprising:

3 providing the public/private common mobile communication system comprising a
4 plurality of mobile stations (MSs), a mobile switching center (MSC), a plurality of public
5 mobile communication network base station controllers (BSCs) connected to the MSC, a
6 plurality of public mobile communication network base station transceiver subsystems

(BTSs) connected to each of the BSC's, each of the plurality of public mobile communication network BTSs adapted to form a corresponding public-only cell area, a public/private communication service unit connected to a particular one of the plurality of public mobile communication network BSCs, and a private BTS connected to the public/private communication service unit, the private BTS adapted to form a public/private common cell area;

determining whether a call origination message is a public mobile communication service request message or a private mobile communication service request message upon receiving the call origination message that requests origination of a call from one of said plurality of mobile stations located in said public/private common cell area through the private BTS; and

transmitting transparently the call origination message to a PLMN when the call origination message is a public mobile communication service request message, and providing a corresponding private mobile communication service when the call origination message is a private mobile communication service request message.

19. (Previously Added) A call originating service method in a public/private common mobile communication system, the method comprising:

providing a public land mobile network (PLMN) comprising a base station transceiver subsystem (BTS) adapted to form a public cell area that is interworked with a private mobile communication network comprising a BTS adapted to form a

6 public/private common cell area enabling a subscriber to be provided with both a public
7 mobile communication service and a private mobile communication service using a
8 single mobile station in said public/private common cell area;

9 determining whether a call origination message is a public mobile communication
10 service request message or a private mobile communication service request message upon
11 receiving the call origination message for requesting origination of a call from a mobile
12 station in the public/private common cell area through the BTS in the private mobile
13 communication network; and

14 transmitting the call origination message to the PLMN when the call origination
15 message is a public mobile communication service request message, and providing a
16 corresponding private mobile communication service when the call origination message
17 is a private mobile communication service request message.

1 20. (Previously Added) The method of claim 16, calls from the MS in the
2 common cell area to the public mobile communication network are directly connected
3 and interworked with the public mobile communication network without having to go
4 through additional circuitry.

1 21. (Previously Added) The system of claim 17, calls from the MS in the common
2 cell area to the public mobile communication network are directly connected and
3 interworked with the public mobile communication network without having to go through

4 additional circuitry.

1 22. (Previously Added) The method of claim 16, calls from the MS in the
2 common cell area to the private mobile communication service are not routed through a
3 public mobile communications network and are not routed through a landline telephone
4 network.

1 23. (Previously Added) The method of claim 19, calls from the MS in the
2 common cell area to the private mobile communication service are not routed through a
3 public mobile communications network and are not routed through a landline telephone
4 network.

1 24. (Previously Added) The system of claim 17, calls from the MS in the common
2 cell area to the private mobile communication service are not routed through a public
3 mobile communications network and are not routed through a landline telephone
4 network.

1 25. (Previously Added) The method of claim 16, the common cell area being an
2 area that provides both public and private mobile communication services to an MS
3 within the area without requiring the MS to roam.

1 26. (Previously Added) The system of claim 17, a public/private communication
2 service unit and the private BTS providing both public and private mobile services
3 simultaneously and without requiring an MS in the common cell area to roam to a new
4 location to receive both of these services.

1 27. (Previously Added) The method of claim 19, the public/private common cell
2 area providing both public mobile and private mobile services to an MS located within
3 the common cell, both public mobile and private mobile services being available to the
4 MS without requiring the MS to move or roam to a different location.